



1762

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent application of **RECEIVED** Attorney Docket No.:
Scott W. Huffer 9325-58 (153520)
Serial No.: 10/037,271 JAN 09 2003 : Group Art Unit:
1762
Filed: 11/7/2001 : TC 1700 :
For: EB PATTERN PROFILE PRINTING : Examiner:
Not yet assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, submitted herewith are copies of the references listed below and on the accompanying Form PTO-1449. No certification, petition, or fee are required. 37 C.F.R. §1.97(c)(1). Charge any fee that is due, and credit any overpayment, to Deposit Account No. 50-0573.

CERTIFICATE OF MAILING
UNDER 37 C.F.R. 1.8(a)

I hereby certify that this paper, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date indicated below, with sufficient postage, as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

BY Stephen Schott
DATE: 1/3/2003

The Examiner is respectfully requested to review the references identified below and on the accompanying form PTO-1449 and make them of record in the instant application as required by MPEP § 609.

The following references are noted as being potentially relevant to the subject matter of the present application:

U.S. Pat. No. 4,124,947 to Kuhl et al. discloses a method of producing a graphic pattern of raised lines that cause a different visual effect when viewed from different angles. Raised color mounds are printed in rows and columns, such that when the printed object is viewed from above a certain angle, the valleys between color mounds can be seen. If the object is viewed from below a certain angle, the valleys can not be seen. The valleys are contemplated to be a different color from the mounds. It is further contemplated that because the color mounds are difficult to duplicate, observing the visual effect caused by the color mounds permits verification of the validity of the printed object.

U.S. Pat. No. 4,184,700 to Greenaway shows a printed document having an embossed thermoplastic coating forming a light-modifying relief structure. This structure causes different visual effects when viewed from different angles. A flat support member coated with a thermoplastic material is embossed with optical markings having a light modifying relief structure that is easily identified by machine. It is contemplated that creating the embossed structure requires expensive equipment and expertise, and the presence of the embossed structure is indicative of document genuineness.

U.S. Pat. No. 5,116,548 to Mallik et al. discloses the use of cured resin to form a surface relief pattern. Uncured resin is applied to a web in repeating areas in registration with a

surface relief pattern. The resin areas are then held between the substrate and a relief pattern while the resin is cured. The cured resin forms a hardened relief pattern, such as a hologram.

U.S. Pat. No. 5,401,303 to Stoffel et al. shows the use of an additive to reduce the surface tension of an ink. Color ink jet printers typically use black ink for text and various color inks for color images. The black ink is normally chosen to have high surface energy to produce sharp edge acuity. Colored inks are chosen to have low surface energy so that they absorb into the media rapidly, thereby avoiding "bleeding" of the inks. Certain fluorinated compounds are added to lower the surface tension of the high surface tension ink to within 15 dynes/cm of the low surface tension inks to alleviate the problems of halo and shrinkage.

The following additional references may potentially be considered of interest to the present application:

U.S. Patents

1,509,664	4,759,982	5,538,674
2,793,585	4,908,063	5,539,440
3,859,110	5,008,144	5,554,432
4,079,673	5,330,799	5,742,432

International References

EP 0 974 626 A
EP 0 569 640 A
WO 00 37258 A
EP 1 022 151 A
JP 55-146785

The Examiner is respectfully requested to initial each of the references on the enclosed PTO Form 1449, and return a copy of the initialed form to the undersigned attorney.

If there are any questions concerning this statement or the references cited, please
contact the below-named attorney.

Respectfully submitted,

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